

9/27/02 Handed to me
by PMK's Devany
mfg, pulled from SI rpt which is
currently in draft form, not yet ready for
submit

TABLE 2
SEDIMENT SAMPLING ANALYTICAL RESULTS (7/24/02)
DRY POND AREA
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

Sample ID	New Jersey Residential	New Jersey Non-residential	New Jersey Impact	SS-1	SS-2	TB
Lab Sample Number	Direct Contact	Direct Contact	Ground Water	P3457-01	P3457-02	P3457-03
Sampling Date	Soil Cleanup	Soil Cleanup	Soil Cleanup	7/24/02	7/24/02	7/24/02
Sampling Depth (feet)	Criteria	Criteria	Criteria	0- 0.5	0- 0.5	-
Matrix	Units	Units	Units	Sediment	Sediment	Aqueous
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
VOLATILE COMPOUNDS (GC/MS)						
DILUTION FACTOR				1.0	1.0	1.0
Chloromethane	520	1	10	ND	ND	ND
Benzene	3	13	1	ND	ND	ND
Toluene	1,000	1000	500	ND	ND	ND
Tetrachloroethene	4	6	1	ND	ND	ND
Chlorobenzene	37	680	1	ND	ND	ND
Ethylbenzene	1,000	1000	100	ND	ND	ND
Xylene(Total)	410	1000	67	ND	ND	ND
Bromoform	86	370	1	ND	ND	ND
Acrolein	NA	NA	NA	ND	ND	ND
Total Confident Conc. VOAs (s)	1,000	1,000	1,000	0	0	0
Total Estimated Conc. VOA TICs (s)	1,000	1,000	1,000	0	0	0
PESTICIDES						
DILUTION FACTOR				1.00	1.00	1.00
Total Pesticides	NS	NS	NS	ND	ND	ND
METALS						
DILUTION FACTOR				NA	NA	ND
Antimony	14	340	NA	6.1 B	1.9 B	NA
Arsenic	20	20	NS	5.8	12.8	NA
Beryllium	2	2	NS	0.99 B	1.0	NA
Cadmium	39	100	NS	35.1	7.8	NA
Chromium	NS	NS	NS	75.1	31.+	NA
Copper	600	600	NS	151	62.2	NA
Lead	400	600	NS	246 *	81.4	NA
Mercury	14	270	NS	0.45 *N	0.25 *N	NA
Nickel	250	2,400	NS	55.6 E	35.9 E	NA
Selenium	63	3,100	NS	3.1	1.0	NA
Silver	110	4,100	NA	5.8	3.2	NA
Thallium	2	2	NA	ND	ND	NA
Zinc	1,500	1,500	NS	508	481.0	NA



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TABLE 2 continued
SEDIMENT SAMPLING ANALYTICAL RESULTS (7/24/02)
DRY POND AREA
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

Sample ID Lab Sample Number Sampling Date Sampling Depth (feet) Matrix Units	New Jersey Residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Non-residential Direct Contact Soil Cleanup Criteria (mg/kg)	New Jersey Impact Ground Water Soil Cleanup Criteria (mg/kg)	SS-1 P3457-01 7/24/02 0- 0.5 Sediment (mg/kg)	SS-2 P3457-02 7/24/02 0- 0.5 Sediment (mg/kg)	TB P3457-03 7/24/02 - Aqueous (mg/kg)
SEMIVOLATILE COMPOUNDS (GC/MS)						
DILUTION FACTOR				1.00	5.00	NA
Acenaphthylene	NA	NA	NA		0.120 J	NA
Acenaphthene	3400	10000	100	0.150 J	0.066 J	NA
Fluorene	2300	10000	100		0.093 J	NA
Phenanthrene	NA	NA	NA	0.490 J	1.1	NA
Anthracene	10000	10000	100	0.140 J	0.280 J	NA
Di-n-butylphthalate	5700	10000	100	0.310 J	0.053 J	NA
Fluoranthene	2300	10000	100	1.4	2.3	NA
Benzidine	NA	NA	NA	ND	ND	NA
Pyrene	1700	10000	100	1.4	2.5	NA
Butylbenzylphthalate	1100	10000	100	3.3	0.44	NA
3,3'-Dichlorobenzidine	2	6	100	ND	ND	NA
Benzo(a)anthracene	0.9	4	500	0.8	1.5	NA
Chrysene	9	40	500	1	1.7	NA
bis(2-Ethylhexyl)phthalate	49	210	100	12 E	1.7	NA
Di-n-octylphthalate	1100	10000	100	0.30 J	0.067 J	NA
Benzo(b)fluoranthene	0.9	4	50	1.2	1.5	NA
Benzo(k)fluoranthene	0.9	4	500	0.93	1.7	NA
Benzo(a)pyrene	0.66	0.66	100	1	1.8	NA
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.520 J	0.39	NA
Dibenz(a,h)anthracene	0.66	0.66	100	ND	0.120 J	NA
Benzo(g,h,i)perylene	NS	NS	NS	0.600 J	0.77	NA
Total Confident Conc. BNAs (s)	10,000	10,000	10,000	11.03	17.4	NA
Total Estimated Conc. BNA TICs (s)	10,000	10,000	10,000	31.41	18.79	NA
PCBs	DILUTION FACTOR			1.00	1.00	NA
Aroclor-1254	0.49	2	50	7.3	6.7	NA

TABLE 3
SOIL SAMPLING ANALYTICAL RESULTS
PCB INVESTIGATION
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

[illegible]

TABLE 3 continued
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY
PCB INVESTIGATION
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

Sample ID	New Jersey	New Jersey	New Jersey	R-1A	R-1B	R-1C	R-1D	R-1DEEP
Lab Sample Number	Residential	Non-Residential	Impact to	P3612-01	P3612-02	P3612-03	P3612-04	P3612-05
Sampling Date	Direct Contact	Direct Contact	Ground Water	8/5/02	8/5/02	8/5/02	8/5/02	8/5/02
Sampling Depth (feet)	Soil Cleanup	Soil Cleanup	Soil Cleanup	0.0-0.5	0.0-0.5	0.0-0.5	0.0-0.5	1.0-1.5
Matrix	Criteria	Criteria	Criteria	SOIL	SOIL	SOIL	SOIL	SOIL
Dilution Factor				1.0	10.0	10.0	10.0	1.0
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PCBs								
Aroclor-1016	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1221	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1232	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1242	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1248	0.49	2	50	ND	ND	ND	ND	ND
Aroclor-1254	0.49	2	50	0.4	0.48	2.7	0.74	ND
Aroclor-1260	0.49	2	50	ND	ND	ND	ND	ND

TABLE 4
SAMPLING SUMMARY RESULTS TABLE
PCB POST EXCAVATION
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

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TABLE 4 continued
SOIL SAMPLING ANALYTICAL RESULTS SUMMARY
PCB POST EXCAVATION
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

Sample ID	New Jersey	New Jersey	New Jersey	SW-1-081302	SW-2-081302	FLOOR081302
Lab Sample Number	Residential	Non-Residential	Impact to	P3720-01	P3720-02	P3720-03
Sampling Date	Direct Contact	Direct Contact	Ground Water	8/13/02	8/13/02	8/13/02
Sampling Depth (feet)	Soil Cleanup	Soil Cleanup	Soil Cleanup	1.5-2	1.5-2	2-2.5
Matrix	Criteria	Criteria	Criteria	SOIL	SOIL	SOIL
Dilution Factor				1.0	1.0	1.0
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
PCBs						
Aroclor-1016	0.49	2	50	ND	ND	ND
Aroclor-1221	0.49	2	50	ND	ND	ND
Aroclor-1232	0.49	2	50	ND	ND	ND
Aroclor-1242	0.49	2	50	ND	ND	ND
Aroclor-1248	0.49	2	50	ND	ND	ND
Aroclor-1254	0.49	2	50	3.3	1.3	4.8
Aroclor-1260	0.49	2	50	ND	ND	ND

TABLE 4 continued
SOIL SAMPLING SUMMARY RESULTS TABLE
PCB POST EXCAVATION
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

[illegible]

TABLE 5
SOIL SAMPLING ANALYTICAL RESULTS
AOC #3 and #5
VETERANS MEMORIAL FIELD
SOUTH PLAINFIELD, NEW JERSEY
PMK# 0502014

Sample ID				TP-31	TP-33	TP-34	TP-6d	TP-6	TP-4	TP-4d	TP-13	TP-10	TP-10d	TB080902
Lab Sample Number	New Jersey	New Jersey	New Jersey	P3702-01	P3702-02	P3702-03	P3702-04	P3702-05	P3702-06	P3702-07	P3702-08	P3702-09	P3702-10	P3702-11
Sampling Date	Direct Contact	Direct Contact	Ground Water	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02	8/9/02
Sampling Depth (feet)	Soil Cleanup	Soil Cleanup	Soil Cleanup	1.0-1.5	1.0-1.5	1.0-1.5	6.5-7.0	2.5-3.0	3.5-4.0	7.0-7.5	1.5-2.0	2.0-2.5	3.5-4.0	NA
Matrix	Criteria	Criteria	Criteria	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL	AQUEOUS
Units	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

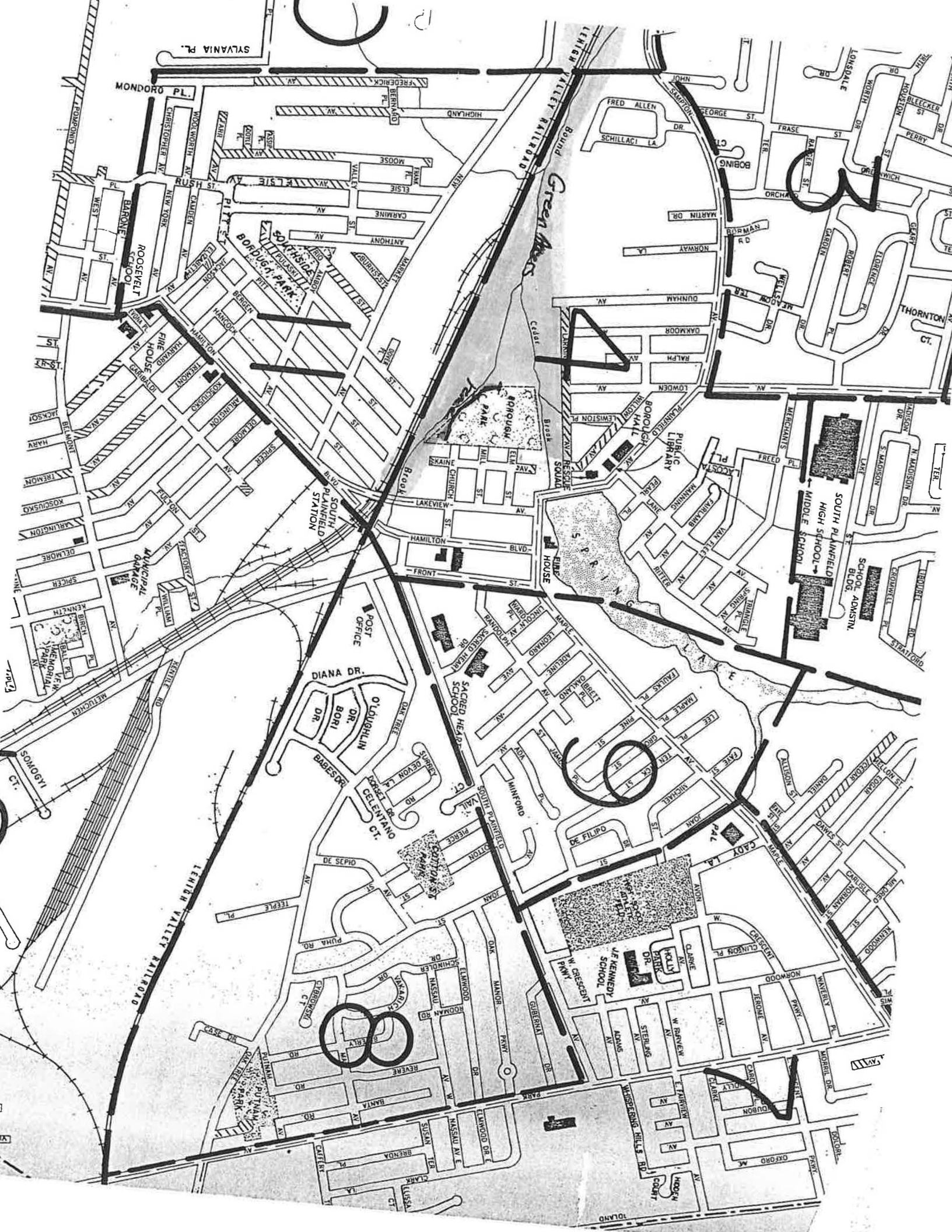
VOLATILE COMPOUNDS (GC/MS)														
DILUTION FACTOR				1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Benzene	3	13	1	0.14 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	1,000	1000	500	0.62 J	0.160 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	1,000	1000	100	0.230 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylene(Total)	410	1000	67	2.2 J	0.640 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Confident Conc. VOAs (s)	1,000	1,000	1,000	0	0	ND	ND	ND	ND	ND	ND	ND	ND	ND
Total Estimated Conc. VOA TICs (s)	1,000	1,000	1,000	13	1.3	ND	ND	ND	ND	ND	ND	ND	ND	ND

PESTICIDES														
DILUTION FACTOR				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	NA
Pesticides	NS	NS	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA

METALS														
DILUTION FACTOR				NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Antimony	14	340	NA	7.20	ND	ND	5.6 B	2.0 B	3.7 B	0.89 B	0.43 B	0.30 B	ND	NA
Arsenic	20	20	NS	37.9	7.9	7.0	46.7	41.4	16.6	2.6	9.5	0.64 B	ND	NA
Beryllium	2	2	NS	0.57 E	0.58 E	0.58 E	2.4	0.65 E	0.66 E	0.26 BE	3.3 E	0.78 E	0.38 B E	NA
Cadmium	39	100	NS	0.74	0.54 B	0.50 B	0.48 B	0.95	20.2	0.20 B	ND	ND	ND	NA
Chromium	NS	NS	NS	11.8	10.7	11.4	17.8	13	81.5	7.4	9.4	2.1	1.2 B	NA
Copper	600	600	NS	74.1	47.6	47.5	64.9	48.4	87.7	2.6 B	1.7	ND	ND	NA
Lead	400	600	NS	197	75.5	67.5	556	125	245	2.8	5.1	0.86	0.37 B	NA
Mercury	14	270	NS	0.1	0.1	0.1	0.14	0.09	0.14	ND	ND	0.52	0.07	NA
Nickel	250	2,400	NS	10	7.3	6.6	10.3	10.1	28.4	2.9 B	ND	ND	ND	NA
Selenium	63	3,100	NS	2.6	0.9	1.0	1.6	0.58 B	2.1	0.47 B	0.68	ND	ND	NA
Silver	110	4,100	NA	1.5	1.0	0.88 B	0.79 B	0.68 B	5.9	ND	ND	ND	ND	NA
Thallium	2	2	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Zinc	1,500	1,500	NS	52.5	100.0	97.7	90.6	187	203	18.2	7.1	ND	ND	NA

SEMIVOLATILE COMPOUNDS (GC/MS)														
DILUTION FACTOR				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	NA
Naphthalene	230	4200	100	0.54	.110 J	ND	ND	ND	ND	ND	ND	0.067 J	ND	NA
Acenaphthylene	NA	NA	NA	0.110 J	ND	ND	ND	ND	0.120 J	ND	ND	0.120 J	ND	NA
Acenaphthene	3400	10000	100	ND	ND	ND	ND	0.056 J	ND	ND	ND	ND	ND	NA
Fluorene	2300	10000	100	ND	ND	ND	ND	0.072 J	ND	ND	ND	ND	ND	NA
Phenanthrene	NA	NA	NA	0.76	0.150 J	0.048 J	0.150 J	0.7	0.360 J	ND	ND	0.34 J	ND	NA
Anthracene	10000	10000	100	0.140 J	ND	ND	ND	0.150 J	0.130 J	ND	ND	0.076 J	ND	NA
Di-n-butylphthalate	5700	10000	100	ND	ND	ND	ND	ND	0.140 J	ND	ND	ND	ND	NA
Fluoranthene	2300	10000	100	1.2	0.100 J	0.110 J	0.290 J	1.1	0.97	ND	0.049 J	0.90 J	ND	NA
Pyrene	1700	10000	100	1.2	0.120 J	0.140 J	0.350 J	1.4	1.2	ND	0.080 J	1.1	ND	NA
Butylbenzylphthalate	1100	10000	100	ND	ND	ND	ND	ND	0.9	ND	ND	ND	ND	NA
Benzo(a)anthracene	0.9	4	500	0.57	0.044 J	0.069 J	0.140 J	0.540 J	0.44	ND	ND	0.410 J	ND	NA
Chrysene	9	40	500	0.9	0.096 J	0.071 J	0.190 J	0.620 J	0.7	ND	ND	0.58	ND	NA
bis(2-Ethylhexyl)phthalate	49	210	100	.086 JB	0.140 JB	0.190 JB	0.082 JB	0.210 JB	5.2 EB	ND	0.068 JB	ND	0.088 JB	NA
Benzo(b)fluoranthene	0.9	4	50	0.47 J	0.061 J	0.140 J	0.330 J	0.58	ND	ND	0.460 J	ND	ND	NA
Benzo(k)fluoranthene	0.9	4	500	0.55	ND	0.10 J	0.140 J	0.67	0.9	ND	ND	0.660 J	ND	NA
Benzo(a)pyrene	0.66	0.66	100	0.41	ND	0.075 J	0.210 J	0.66	0.7	ND	ND	0.530 J	ND	NA
Indeno(1,2,3-cd)pyrene	0.9	4	500	0.140 J	ND	ND	ND	0.089 J	0.120 J	ND	ND	0.074 J	ND	NA
Benzo(g,h,i)perylene	NA	NA	NA	ND	ND	ND	0.098 J	0.200 J	0.24 J	ND	ND	0.150 J	ND	NA
Total Confident Conc. BNAs (s)	10,000	10,000	10,000											NA
Total Estimated Conc. BNA TICs (s)	10,000	10,000	10,000	7.82	5.74	8.55	9.05	8.22	6.22	8.7	4.9	8.95	10	NA

PCBs														
DILUTION FACTOR				1.00	1.00	1.00	1.00	1.00	10.00	1.00	1.00	1.00	1.00	NA
Aroclor-1254	0.49	2	50	ND	ND	0.11	0.43	2.4 E	2.6 E	ND	0.043	0.560 E	ND	NA





8.58 ac 30 samples by EPA
 1/4 = 34 samples per hist fill req.
 plus PMK samples



LEGEND
 X CONTROL POINT
 ● SAMPLE LOCATION
 (0.38) PCB CONCENTRATION
 PCB - POLYCHLORINATED
 U - NON-DETECTED C
 J - ESTIMATED VALUE

SCALE: 1" = 50'
WISN
 Environmental & Land Use
 2500 North Lincoln Avenue
 Milwaukee, WI 53212
 414.381.1234

ATTACHMENT 2

**SOIL (ASBESTOS/BLACK "TAR-LIKE" SUBSTANCE/PCB)
DISPOSAL MANIFESTS**

**INTERIM REMEDIAL ACTION REPORT
VETERANS MEMORIAL PARK
BLOCK 260, LOT 15.02
SOUTH PLAINFIELD, NEW JERSEY
CASE NUMBER 01-08-07-1845-23
PMK GROUP #0502014-01**

February 12, 2004

Material from Cap Area

5. The NJDEP directed the former consultant to begin investigations as part of the PAR. On April 12, 2002, the Site Investigation Report was submitted.
6. A Remedial Investigation/Remedial Action Workplan was submitted to the NJDEP on November 15, 2002. In addition, the USEPA had conducted a floodplain soil and sediment study as part of an investigation of the Cornell Bubluer Superfund Site located near the Park. The USEPA collected 34 soil and sediment samples on the Park property, and submitted them for PCB analysis. PCB impact was determined at the Park.
7. In correspondence dated 12/17/2002, the NJDEP had concerns about a complete understanding of site history, especially as it related to historic fill (AOC 1). The NJDEP issued a No Further Action designation for AOC 2. The NJDEP requested additional investigation for AOC 3, and requested upgradient sources for AOC 4. The NJDEP required AOC 5 to be secured with a fence and required additional investigation. For AOC 6, the NJDEP required additional investigation as part of the investigation of AOC 1, and the NJDEP indicated they would grant an NFA for AOC if it could be proven that it was related to AOC 1.
8. The files indicated that the Edison Wetlands Association collected sediment samples in the area of AOC 8, but that information was never shared with the NJDEP or the Borough of South Plainfield.
9. Samples were collected of the black tar like substance in July 2002. The results were inconclusive as to the type of material. Other soil and sediment samples collected indicated impact from PCB, various hydrocarbons, and significant amounts of historic fill. Asbestos containing material was confirmed in AOC 8.
10. Limited excavations were conducted to remediate PCB impacted soil.
11. Ecological evaluations were conducted as part of the activities associated with the limited excavations.
12. An interim Remedial Action Workplan was prepared and submitted for the site on 11/15/2002. PCB issues were to be managed by the USEPA, and were waiting funding. USEPA indicated that funding would not happen for at least three (3) years. To date, T&M has not been notified that funding has not been approved by the USEPA. Other interim remedial measures identified in the Interim Remedial Action Workplan included additional excavation, preparation of draft deed notices for historic fill areas, and other areas.
13. An interim Remedial Action Report, dated 2/12/2004, was submitted for the Park. 380 tons of PCB/Asbestos Soil was removed, 10 tons of arsenic contaminated soil and 15 tons of soil impacted with PCB only was excavated and disposed. Additionally, the basketball court was demolished and asbestos was encapsulated. Approximately 1400 tons of black tar like substance, along with an unknown number of drums was disposed during interim remedial activities. Draft deed notices were prepared, but never finalized and recorded, based on the information reviewed.

14. No correspondence, reports, or any other documentation for the Park and environmental activities conducted is available after July 21, 2004.
15. A review of the available data indicates residual impact remains on site. Aside from AOC 2, no additional NFAs were issued by the NJDEP. Ground water has never been investigated at this site.

Based on this review, T&M makes the following recommendations:

1. Submit an LSRP Notice of Retention to the NJDEP. This is required to be submitted prior to May 7, 2012, per the Site Remediation Reform Act (SRRA). An LSRP Notice of Retention is attached to this document as Appendix A. Please sign where indicated and return to T&M. We will ensure it is submitted to the NJDEP prior to May 7, 2012.
2. Due to the past presence of black tar like substance, the NJDEP requires notification via a Light Non Aqueous Phase Liquid (LNAPL) form. The requirements of the SRRA had set a mandatory timeframe of March 1, 2012 for submission of this form.

However, since files were not available for T&M to review prior to March 1, 2012, the form is required to be submitted upon discovery of a past release of LNAPL. As such, this form is required to be submitted at this time, and it has been attached as Appendix B. Please sign in Section E and return to T&M. We will ensure it is submitted to the NJDEP as quickly as possible. Due to the urgency of this submission of this document, we request it be forwarded to us as soon as possible.

After receipt of the NJDEP files, T&M will provide the Borough with a comprehensive proposal for additional activities to bring the site to closure.